

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



DOCUMENT
#2215084

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
7/20/2011

1. OGCC Operator Number: 10310	4. Contact Name: Harold Mayland	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Fram Operating LLC	Phone: 303.550.1098	
3. Address: 30 E Pikes Peak Ave. Ste. 287 City: Colorado Springs State: CO Zip: 80903	Fax: NA	
5. API Number 05-077-09311	OGCC Facility ID Number 334472	Survey Plat
6. Well/Facility Name: Jensen #1-3-O	7. Well/Facility Number Jensen #1-3-O	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NWSE, Sec. 1, T13S, R98W, 6PM		Surface Eqpm Diagram
9. County: Mesa	10. Field Name: Wildcat - #99999	Technical Info Page
11. Federal, Indian or State Lease Number: NA		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest lease line
Ground Elevation	Distance to nearest well same formation
Is location in a High Density Area (rule 603b)? Yes/No	
Surface owner consultation date:	
GPS DATA:	
Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation Formation Code Spacing order number Unit Acreage Unit configuration	<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done	
Approximate Start Date: Upon COGCC Approval		Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)			
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal	
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input checked="" type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input checked="" type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background Arsenic	for Spills and Releases	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Date: 7/20/2011 Email: tdobransky@oaconsulting.com
Print Name: Tim Dobransky Title: Project Manager

COGCC Approved: Title: Date:
CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 10310 API Number: 05-077-09311
 2. Name of Operator: Fram Operating LLC OGCC Facility ID # 334472
 3. Well/Facility Name: Jensen #1-3-O Well/Facility Number: Jensen #1-3-O
 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE, Sec. 1, T13S, R98W, 6PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

This COGCC Form 4 is being submitted as a request for the following items at the Jensen #1-3-O:

- *Beneficial reuse of drill cuttings,
- *Variance of the electrical conductivity (EC) concentration in drill cuttings and,
- *Use of background arsenic concentrations.

The cuttings were generated by Fram Operating LLC during the Spring of 2011 during closed-loop drilling activities on the Jensen #1-3-O well (API 05-077-09311). It is Fram's intent to use these cuttings as recontouring fill during the interim reclamation process on the Jensen #1-3-O location. No off-site transportation will occur. It is not anticipated that any treatment of the cuttings will be performed, other than mixing with native soil during reclamation activities.

A composite cuttings sample and 5 grab background samples were collected in April 2011 and analyzed for the Table 910-1 requirements. The results indicated that the cuttings exceeded Table 910-1 background standards for Arsenic (8.34 mg/kg) and EC (12.9 mmhos/cm).

***Arsenic Concentrations**

The 5 grab background samples were collected from nearby non-impacted, native soil from a depth of 0-6 inches and analyzed for Arsenic in April 2011. The concentration found in the cuttings sample is within 10% of two of the background samples. Fram is requesting that the arsenic concentration of the cuttings be considered within allowable background levels.

J-1-3-O-CS1 (cuttings sample) - 8.34 mg/kg

J-1-3-O-SS1 (background) - 6.48 mg/kg

J-1-3-O-SS2 (background) - 7.61 mg/kg (8.37 mg/kg including 10%)

J-1-3-O-SS3 (background) - 6.21 mg/kg

J-1-3-O-SS4 (background) - 7.0 mg/kg

J-1-3-O-SS5 (background) - 7.75 mg/kg (8.52 mg/kg including 10%)

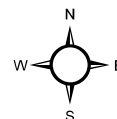
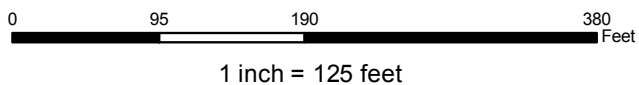
***Electrical Conductivity**

As shown in the analytical results summary, the electrical conductivity of the cuttings exceeds the COGCC Table 910-1 allowable concentration. Fram is requesting a variance to Rule 910 in regard to this individual contaminant for the purpose of the beneficial reuse described above.

A sample location map, data summary table and laboratory analytical results are attached.



- Sample Locations
- ★ WELLS selection
- Approximate Pad Perimeter



PROJECT NO:	011-0726	JENSEN J-1-3-O PAD BACKGROUND SAMPLE LOCATION FRAM OPERATING LLC MESA COUNTY, COLORADO	 <div> 826 21-1/2 ROAD GRAND JUNCTION, CO 81505 TEL 970.263.7800 </div>	FIGURE
DRAWN BY:	Brian Swedhin			1
DATE:	6/29/2011			

Table 1
Jensen Pad Cuttings Sample
Data Summary

SAMPLE SUMMARY								
Location Description	Jensen Pad J-1-3-0							
Sample Type	Soil							

LABORATORY DATA SUMMARY								
Sample ID	J-1-3-0 SS1	J-1-3-0 SS2	J-1-3-0 SS3	J-1-3-0 SS4	J-1-3-0 SS5	J-1-3-0 CS1	ALLOWABLE LIMITS	UNITS
Sample Date	4/8/2011	4/8/2011	4/8/2011	4/8/2011	4/8/2011	4/8/2011		
Sample Type	Background	Background	Background	Background	Background	Cuttings		
Analytical Parameters								
TPH								
TPH Gasoline Range Organics	NT	NT	NT	NT	NT	<25	500	mg/kg
TPH Diesel Range Organics	NT	NT	NT	NT	NT	<25		
BTEX								
Benzene	NT	NT	NT	NT	NT	0.0165	0.17	mg/kg
Toluene	NT	NT	NT	NT	NT	0.0336	85	mg/kg
Ethylbenzene	NT	NT	NT	NT	NT	0.0069	100	mg/kg
Xylenes, total	NT	NT	NT	NT	NT	0.0422	175	mg/kg
Metals								
Arsenic	6.48	7.61	6.21	7	7.75	8.34	0.39	mg/kg
Barium	NT	177	NT	NT	NT	720	15,000	mg/kg
Boron	NT	11.3	NT	NT	NT	18	NA	mg/kg
Cadmium	NT	0.365 I	NT	NT	NT	1.18	70	mg/kg
Chromium, Trivalent	NT	14.3	NT	NT	NT	37.9	120,000	mg/kg
Chromium, Hexavalent	NT	<0.324	NT	NT	NT	<0.356	23	mg/kg
Copper	NT	25	NT	NT	NT	31.2	3,100	mg/kg
Lead	NT	17.1	NT	NT	NT	112	400	mg/kg
Mercury	NT	0.0377	NT	NT	NT	0.0327 I	23	mg/kg
Nickel	NT	24.3	NT	NT	NT	21.7	1,600	mg/kg
Potassium	NT	2000	NT	NT	NT	2640	NA	mg/kg
Selenium	NT	2.71 I	NT	NT	NT	2.12 I	390	mg/kg
Silver	NT	<0.756	NT	NT	NT	<1.64	390	mg/kg
Zinc	NT	75.1	NT	NT	NT	72.2	23,000	mg/kg
SAR Metals Analysis								
Calcium	NT	19400	NT	NT	NT	38000	NA	mg/kg
Magnesium	NT	10400	NT	NT	NT	6370	NA	mg/kg
Sodium	NT	413	NT	NT	NT	10900	NA	mg/kg
Sodium Adsorption Ratio	NT	0.595	NT	NT	NT	13.6	<12	ratio
Polynuclear Aromatic Hydrocarbons								
1-Methylnaphthalene	NT	<0.0289	NT	NT	NT	0.772	NA	mg/kg
2-Methylnaphthalene	NT	<0.03	NT	NT	NT	1.48	NA	mg/kg
Acenaphthene	NT	<0.0236	NT	NT	NT	<0.0519	1,000	mg/kg
Acenaphthylene	NT	<0.0321	NT	NT	NT	<0.0708	NA	mg/kg
Anthracene	NT	<0.0375	NT	NT	NT	<0.0825	1,000	mg/kg
Benzo(a)anthracene	NT	<0.03	NT	NT	NT	<0.066	0.22	mg/kg
Benzo(a)pyrene	NT	<0.0268	NT	NT	NT	<0.059	0.022	mg/kg
Benzo(b)fluoranthene	NT	<0.0214	NT	NT	NT	<0.0472	0.22	mg/kg
Benzo(g,h,i)perylene	NT	<0.0289	NT	NT	NT	<0.0637	NA	mg/kg
Benzo(k)fluoranthene	NT	<0.0354	NT	NT	NT	<0.0778	2.2	mg/kg
Chrysene	NT	<0.0246	NT	NT	NT	<0.0542	22	mg/kg
Dibenzo(a,h)anthracene	NT	<0.0289	NT	NT	NT	<0.0637	0.022	mg/kg
Fluoranthene	NT	<0.0407	NT	NT	NT	<0.0896	1,000	mg/kg
Fluorene	NT	<0.0246	NT	NT	NT	<0.0542	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	NT	<0.0364	NT	NT	NT	<0.0802	0.22	mg/kg
Naphthalene	NT	<0.0225	NT	NT	NT	0.605	23	mg/kg
Phenanthrene	NT	<0.0343	NT	NT	NT	<0.0755	NA	mg/kg
Pyrene	NT	<0.0354	NT	NT	NT	0.0896 I	1,000	mg/kg
General Chemistry								
pH	NT	7.69	NT	NT	NT	7.78	6-9	su
Percent Moisture	5.75	6.68	3.83	5.68	6.58	57.6	NA	%
Conductivity	NT	0.435	NT	NT	NT	12.9	<4 or 2 x the background	mmhos/cm

mg/kg - milligrams per kilogram
NT - parameter was not tested
mmhos/cm - millimhos per centimeter
su - standard units
NA - not applicable

Over allowable limit but under BACKGROUND level.
Over allowable limit and not within BACKGROUND level
Over allowable limit

I - sample result was found between method detection limit and reporting limit



May 03, 2011

Olsson Associates

Tim Dobransky

826 21 1/2 Road

Grand Junction CO 81505

Project Name - Jensen Pad J-1-3-0

Project Number - 011-0726-100-100001

Attached are you analytical results for Jensen Pad J-1-3-0 received by Origins Laboratory, Inc. April 09, 2011. This project is associated with Origins project number X104074-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



4640 North Pecos Street | Unit C | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J-1-3-0 SS1	X104074-01	Soil	April 8, 2011 10:30	04/09/2011 10:05
J-1-3-0 SS2	X104074-02	Soil	April 8, 2011 10:50	04/09/2011 10:05
J-1-3-0 SS3	X104074-03	Soil	April 8, 2011 11:25	04/09/2011 10:05
J-1-3-0 SS4	X104074-04	Soil	April 8, 2011 11:45	04/09/2011 10:05
J-1-3-0 SS5	X104074-05	Soil	April 8, 2011 11:55	04/09/2011 10:05
J-1-3-0 CS1	X104074-06	Soil	April 8, 2011 12:30	04/09/2011 10:05

Origins Laboratory, Inc.



Noelle E Doyle, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

www.originslaboratory.com

page 1 of 1

ORIGINS LABORATORY, INC

Client: OLSSON ASSOCIATES

Address: 826 21 1/2 Rd GRAND JCT
CO-81505

Project Manager: TIM DOBRANSKY

Project Name: JENSEN PAD J-1-3-0

Project Number: 011-0726-100-100001

Samples Collected By: JESS WANN
970 250-1320

Telephone Number:

Email Address:

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
J-1-3-0 SS1	4-8-11	1030	1 X						X		As		1
J-1-3-0 SS2		1050	6 X						X		910 PEMS, SAR, PH, EC		2
J-1-3-0 SS3		1125	1 X						X		As		3
J-1-3-0 SS4		1145	1 X						X		As		4
J-1-3-0 SS5		1155	1 X						X		As		5
J-1-3-0 CS1		1230	6 X					X			910 LIST	CUTTINGS MUD	6
													7
													8
													9
													10
Relinquished By: <u>Jim Wann</u>	Date: <u>4-8-11</u>	Time: <u>1630</u>	Received By: <u>FODEX</u>	Date: <u>4/9/11</u>	Time: <u>10:00</u>	Turnaround Time: <u>Same Day</u>							
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	Turnaround Time: <u>48 Hr</u>							

Date Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle, President

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 SS1

4/8/2011 10:30:00AM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X104074-01 (Soil)

Metals by SW6010B

Arsenic	6.48	0.526	1.05	mg/kg	1	852109	04/13/2011	04/14/2011
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Percent Moisture by AD2216A

Percent Moisture	5.75	1	1	%	1	851712	04/12/2011	04/12/2011
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Origins Laboratory, Inc.



Noelle E Doyle, President

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 SS2

4/8/2011 10:50:00AM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X104074-02 (Soil)

Conductivity by E120.1

Conductivity	435	1	2	us/cm	1	852258	04/15/2011	04/15/2011	
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Metals by SW6010B

Arsenic	7.61	0.533	1.07	mg/kg	1	852109	04/13/2011	04/14/2011	
Barium	177	0.415	1.07	"	"	"	"	"	
Boron	11.3	0.969	5.33	"	"	"	"	"	
Cadmium	0.365	0.181	0.533	"	"	"	"	"	I
Calcium	19400	10.7	21.3	"	"	"	"	"	
Chromium	14.3	0.234	1.07	"	"	"	"	"	
Copper	25	0.458	2.13	"	"	"	"	"	
Lead	17.1	0.501	1.07	"	"	"	"	"	
Magnesium	10400	2.98	21.3	"	"	"	"	"	
Nickel	24.3	0.0991	1.07	"	"	"	"	"	
Potassium	2000	22.4	533	"	"	"	"	"	
Selenium	2.71	0.66	3.2	"	"	"	"	"	I
Silver	ND	0.756	2.13	"	"	"	"	"	
Sodium	413	2.45	53.3	"	"	"	"	"	
Zinc	75.1	1.6	3.2	"	"	"	"	"	

Metals by SW7196

Origins Laboratory, Inc.



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Noelle E Doyle, President

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 SS2

4/8/2011 10:50:00AM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X104074-02 (Soil)

Metals by SW7196

Chromium, Hexavalent	ND	0.324	1.07	mg/kg	20	852663	04/19/2011	04/19/2011
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Metals by SW7471A

Mercury	0.0377	0.0114	0.0357	mg/kg	1	852163	04/15/2011	04/15/2011
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Percent Moisture by AD2216A

Percent Moisture	6.68	1	1	%	1	851712	04/12/2011	04/12/2011
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pH by SW9045C

pH	7.69			SU	1	852285	04/15/2011	04/15/2011
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Sodium Absorption Ratio (SAR) by S29B08

Sodium absorption ratio	0.595				1	852561	04/19/2011	04/19/2011
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Origins Laboratory, Inc.



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Noelle E Doyle, President

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001
Project: Jensen Pad J-1-3-0

J-1-3-0 SS3

4/8/2011 11:25:00AM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X104074-03 (Soil)

Metals by SW6010B

Arsenic	6.21	0.519	1.04	mg/kg	1	852109	04/13/2011	04/14/2011
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Percent Moisture by AD2216A

Percent Moisture	3.83	1	1	%	1	851712	04/12/2011	04/12/2011
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Origins Laboratory, Inc.



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Noelle E Doyle, President

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 SS4

4/8/2011 11:45:00AM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X104074-04 (Soil)

Metals by SW6010B

Arsenic	7	0.526	1.05	mg/kg	1	852109	04/13/2011	04/14/2011
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Percent Moisture by AD2216A

Percent Moisture	5.68	1	1	%	1	851712	04/12/2011	04/12/2011
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Origins Laboratory, Inc.



Noelle E Doyle, President

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001
Project: Jensen Pad J-1-3-0

J-1-3-0 SS5

4/8/2011 11:55:00AM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X104074-05 (Soil)

Metals by SW6010B

Arsenic	7.75	0.535	1.07	mg/kg	1	852109	04/13/2011	04/14/2011
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Percent Moisture by AD2216A

Percent Moisture	6.58	1	1	%	1	851712	04/12/2011	04/12/2011
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Noelle E Doyle, President

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 CS1

4/8/2011 12:30:00PM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X104074-06 (Soil)

BTEX by EPA 8260C

Benzene	0.0165	0.0020	0.0040	mg/kg	1	1D14003	04/14/2011	04/15/2011	
Toluene	0.0336	0.0020	0.0040	"	"	"	"	"	
Ethylbenzene	0.0069	0.0020	0.0040	"	"	"	"	"	
Xylenes, total	0.0422	0.0020	0.0040	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %		70-130			"	"	"	

Conductivity by E120.1

Conductivity	12900	1	2	us/cm	1	852258	04/15/2011	04/15/2011	
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Metals by SW6010B

Arsenic	8.34	1.16	2.31	mg/kg	1	852109	04/13/2011	04/14/2011	
Barium	720	0.902	2.31	"	"	"	"	"	
Boron	18	2.1	11.6	"	"	"	"	"	
Cadmium	1.18	0.393	1.16	"	"	"	"	"	
Calcium	38000	23.1	46.2	"	"	"	"	"	
Chromium	37.9	0.509	2.31	"	"	"	"	"	

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 CS1

4/8/2011 12:30:00PM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X104074-06 (Soil)

Metals by SW6010B

Copper	31.2	0.994	4.62	mg/kg	1	852109	04/13/2011	04/14/2011	
Lead	112	1.09	2.31	"	"	"	"	"	
Magnesium	6370	6.47	46.2	"	"	"	"	"	
Nickel	21.7	0.215	2.31	"	"	"	"	"	
Potassium	2640	48.6	1160	"	"	"	"	"	
Selenium	2.12	1.43	6.94	"	"	"	"	"	I
Silver	ND	1.64	4.62	"	"	"	"	"	
Sodium	10900	5.32	116	"	"	"	"	"	
Zinc	72.2	3.47	6.94	"	"	"	"	"	

Metals by SW7196

Chromium, Hexavalent	ND	0.356	1.18	mg/kg	10	852663	04/19/2011	04/19/2011	U, J
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Metals by SW7471A

Mercury	0.0327	0.025	0.0786	mg/kg	1	852163	04/15/2011	04/15/2011	I
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Percent Moisture by AD2216A

Percent Moisture	57.6	1	1	%	1	851712	04/12/2011	04/12/2011	
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pH by SW9045C

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 CS1

4/8/2011 12:30:00PM

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X104074-06 (Soil)

pH by SW9045C

pH	7.78			SU	1	852285	04/15/2011	04/15/2011
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Polyaromatic Hydrcarbons (PaHs) by SW8270C

1-Methylnaphthalene	0.772	0.0637	0.236	mg/kg	1	852299	04/14/2011	04/14/2011
2-Methylnaphthalene	1.48	0.066	0.472	"	"	"	"	"
Acenaphthene	ND	0.0519	0.236	"	"	"	"	"
Acenaphthylene	ND	0.0708	0.236	"	"	"	"	"
Anthracene	ND	0.0825	0.236	"	"	"	"	"
Benzo(a)anthracene	ND	0.066	0.236	"	"	"	"	"
Benzo(a)pyrene	ND	0.059	0.156	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0472	0.236	"	"	"	"	"
Benzo(g,h,i)perylene	ND	0.0637	0.236	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.0778	0.236	"	"	"	"	"
Chrysene	ND	0.0542	0.236	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0637	0.156	"	"	"	"	"
Fluoranthene	ND	0.0896	0.236	"	"	"	"	"
Fluorene	ND	0.0542	0.236	"	"	"	"	"
Indeno(1,2,3-c,d)Pyrene	ND	0.0802	0.236	"	"	"	"	"
Naphthalene	0.605	0.0495	0.236	"	"	"	"	"
Phenanthrene	ND	0.0755	0.236	"	"	"	"	"

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

J-1-3-0 CS1

4/8/2011 12:30:00PM

Reporting

Analyte	Result	Min. Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X104074-06 (Soil)

Polyaromatic Hydrycarbons (PaHs) by SW8270C

Pyrene	0.0896	0.0778	0.236	mg/kg	1	852299	04/14/2011	04/14/2011	I
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Surrogate: 2-Fluorobiphenyl	78 %	64-104	"	"	"
Surrogate: Nitrobenzene-d5	79 %	63-105	"	"	"
Surrogate: Terphenyl-D14	81 %	57-122	"	"	"

Sodium Absorption Ratio (SAR) by S29B08

Sodium absorption ratio	13.6	1	852561	04/19/2011	04/19/2011
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TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	25	50	mg/kg	1	1D14005	04/14/2011	04/14/2011
Diesel (C10-C28)	ND	25	50	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	100	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	25	50	"	"	"	"	"

Surrogate: o-Terphenyl	85.6 %	65-140	"	"	"
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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

Blank (1D14003-BLK1)

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	ND	0.004	mg/kg
Toluene	ND	0.004	"
Ethylbenzene	ND	0.004	"
m,p-Xylene	ND	0.008	"
o-Xylene	ND	0.004	"

Surrogate: 1,2-Dichloroethane-d4	58	ug/L	62.5	92.7	70-130
Surrogate: Toluene-d8	68	"	62.5	109	70-130
Surrogate: 4-Bromofluorobenzene	73	"	62.5	117	70-130

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Olsson Associates
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Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

Blank (1D14003-BLK2)

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
o-Xylene	ND	0.004	"							
Surrogate: 1,2-Dichloroethane-d4	61		ug/L	62.5		98.1	70-130			
Surrogate: Toluene-d8	70		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

LCS (1D14003-BS1)

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	0.2	0.004	mg/kg	0.200	102	70-130
Toluene	0.2	0.004	"	0.200	107	70-130
Ethylbenzene	0.2	0.004	"	0.200	100	70-130
m,p-Xylene	0.4	0.008	"	0.400	93.6	70-130
o-Xylene	0.2	0.004	"	0.200	103	70-130
Surrogate: 1,2-Dichloroethane-d4	61		ug/L	62.5	98.3	70-130
Surrogate: Toluene-d8	65		"	62.5	104	70-130
Surrogate: 4-Bromofluorobenzene	68		"	62.5	109	70-130

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

LCS (1D14003-BS2)

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	0.2	0.004	mg/kg	0.200		97.4	70-130			
Toluene	0.2	0.004	"	0.200		104	70-130			
Ethylbenzene	0.2	0.004	"	0.200		95.2	70-130			
m,p-Xylene	0.4	0.008	"	0.400		95.3	70-130			
o-Xylene	0.2	0.004	"	0.200		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/L	62.5		100	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		113	70-130			

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

Matrix Spike (1D14003-MS1)

Source: X104059-01

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	0.3	0.004	mg/kg	0.200	0.02	126	70-130			
Toluene	0.2	0.004	"	0.200	0.002	112	70-130			
Ethylbenzene	0.2	0.004	"	0.200	ND	89.8	70-130			
m,p-Xylene	0.4	0.008	"	0.400	ND	88.6	70-130			
o-Xylene	0.2	0.004	"	0.200	0.003	85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		ug/L	62.5		112	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

Matrix Spike (1D14003-MS2)

Source: X104063-06

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	0.2	0.004	mg/kg	0.200	ND	93.1	70-130
Toluene	0.2	0.004	"	0.200	ND	102	70-130
Ethylbenzene	0.2	0.004	"	0.200	ND	89.1	70-130
m,p-Xylene	0.4	0.008	"	0.400	ND	92.2	70-130
o-Xylene	0.2	0.004	"	0.200	ND	93.5	70-130
Surrogate: 1,2-Dichloroethane-d4	63		ug/L	62.5		100	70-130
Surrogate: Toluene-d8	68		"	62.5		109	70-130
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

Matrix Spike Dup (1D14003-MSD1)		Source: X104059-01			Prepared: 04/14/2011 Analyzed: 04/14/2011					
Benzene	0.2	0.004	mg/kg	0.200	0.02	88.9	70-130	31.7	20	QM-07
Toluene	0.2	0.004	"	0.200	0.002	94.1	70-130	16.9	20	
Ethylbenzene	0.2	0.004	"	0.200	ND	80.4	70-130	11.0	20	
m,p-Xylene	0.3	0.008	"	0.400	ND	69.5	70-130	24.1	20	QM-07
o-Xylene	0.2	0.004	"	0.200	0.003	83.0	70-130	2.52	20	
Surrogate: 1,2-Dichloroethane-d4	69		ug/L	62.5		110	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14003 - EPA 5030B

Matrix Spike Dup (1D14003-MSD2)

Source: X104063-06

Prepared: 04/14/2011 Analyzed: 04/14/2011

Benzene	0.2	0.004	mg/kg	0.200	ND	86.1	70-130	7.74	20	
Toluene	0.2	0.004	"	0.200	ND	92.3	70-130	10.4	20	
Ethylbenzene	0.2	0.004	"	0.200	ND	79.3	70-130	11.6	20	
m,p-Xylene	0.3	0.008	"	0.400	ND	72.5	70-130	23.9	20	QM-07
o-Xylene	0.2	0.004	"	0.200	ND	84.6	70-130	9.99	20	
Surrogate: 1,2-Dichloroethane-d4	62		ug/L	62.5		99.7	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

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Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1D14005 - Default Prep GC-Semi

Blank (1D14005-BLK1)

Prepared: 04/14/2011 Analyzed: 04/14/2011

Gasoline (C6-C10)	ND	50	mg/kg
Diesel (C10-C28)	ND	50	"
Residual Range Organics (C28-C36)	ND	200	"
TPH - Carbon Chain Total	ND	50	"

Surrogate: o-Terphenyl 48 g 50.0 95.7 65-140

LCS (1D14005-BS1)

Prepared: 04/14/2011 Analyzed: 04/14/2011

Gasoline (C6-C10)	ND	50	mg/kg			65-140
Diesel (C10-C28)	460	50	"	500	92.7	60-140
Surrogate: o-Terphenyl	50		g	50.0	99.7	65-140

Matrix Spike (1D14005-MS1)

Source: X104068-01

Prepared: 04/14/2011 Analyzed: 04/14/2011

Gasoline (C6-C10)	30	50	mg/kg		ND	65-130
Diesel (C10-C28)	520	50	"	500	ND 104	60-140
Surrogate: o-Terphenyl	43		g	50.0	86.6	65-140

Matrix Spike Dup (1D14005-MSD1)

Source: X104068-01

Prepared: 04/14/2011 Analyzed: 04/14/2011

Gasoline (C6-C10)	ND	50	mg/kg		ND	65-130		20
Diesel (C10-C28)	470	50	"	500	ND 94.9	60-140	8.76	25
Surrogate: o-Terphenyl	44		g	50.0	87.4	65-140		

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826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Metals by SW6010B - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 852109 - SW3050B										
MS (412838-001 S) Source: 412838-001 S Prepared: 04/13/2011 Analyzed: 04/14/2011										
Calcium	83100	21	mg/kg	2630	80300	106	75-125		20	
Copper	114	2.1	"	105	14.2	95	75-125		20	
Lead	177	1.05	"	105	88.7	84	75-125		20	
Arsenic	110	1.05	"	105	1.6	103	75-125		20	
Barium	478	1.05	"	105	50.1	408	75-125		20	
Cadmium	105	0.526	"	105	0.339	100	75-125		20	
Chromium	110	1.05	"	105	8.42	97	75-125		20	
Zinc	189	3.16	"	105	80.9	103	75-125		20	
Sodium	2730	52.6	"	2630	85.7	101	75-125		20	
Silver	51.1	2.1	"	52.6	<0.747	97	75-125		20	
Selenium	103	3.16	"	105	<0.652	98	75-125		20	
Potassium	1130	526	"	1050	49.1	103	75-125		20	
Nickel	103	1.05	"	105	2.13	96	75-125		20	
Magnesium	3190	21	"	2630	592	99	75-125		20	
Boron	104	5.26	"	105	1.29	98	75-125		20	
MSD (412838-001 SD) Source: 412838-001 SD Prepared: 04/13/2011 Analyzed: 04/14/2011										
Lead	184	1.05	mg/kg	105	88.7	91	75-125	4	20	
Boron	106	5.26	"	105	1.29	100	75-125	2	20	
Barium	152	1.05	"	105	50.1	97	75-125	103	20	
Arsenic	114	1.05	"	105	1.6	107	75-125	4	20	
Magnesium	3440	21	"	2630	592	108	75-125	8	20	
Cadmium	109	0.526	"	105	0.339	103	75-125	4	20	
Calcium	90100	21	"	2630	80300	373	75-125	8	20	
Copper	119	2.1	"	105	14.2	100	75-125	4	20	
Chromium	112	1.05	"	105	8.42	99	75-125	2	20	
Zinc	178	3.16	"	105	80.9	92	75-125	6	20	

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Metals by SW6010B - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 852109 - SW3050B										
MSD (412838-001 SD)			Source: 412838-001 SD		Prepared: 04/13/2011 Analyzed: 04/14/2011					
Sodium	2880	52.6	mg/kg	2630	85.7	106	75-125	5	20	
Silver	54.6	2.1	"	52.6	<0.747	104	75-125	7	20	
Selenium	106	3.16	"	105	<0.652	101	75-125	3	20	
Potassium	1170	526	"	1050	49.1	107	75-125	3	20	
Nickel	106	1.05	"	105	2.13	99	75-125	3	20	
LCS (600288-1-BKS)			Source: 600288-1-BKS		Prepared: 04/13/2011 Analyzed: 04/14/2011					
Silver	49.5	2	mg/kg	50	<0.710	99	75-125		20	
Sodium	2610	50	"	2500	<2.30	104	75-125		20	
Lead	104	1	"	100	<0.470	104	75-125		20	
Nickel	104	1	"	100	<0.0930	104	75-125		20	
Zinc	101	3	"	100	<1.50	101	75-125		20	
Barium	103	1	"	100	<0.390	103	75-125		20	
Copper	101	2	"	100	<0.430	101	75-125		20	
Magnesium	2570	20	"	2500	<2.80	103	75-125		20	
Arsenic	103	1	"	100	<0.500	103	75-125		20	
Chromium	102	1	"	100	<0.220	102	75-125		20	
Calcium	2540	20	"	2500	<10.0	102	75-125		20	
Cadmium	102	0.5	"	100	<0.170	102	75-125		20	
Potassium	1020	500	"	1000	<21.0	102	75-125		20	
Boron	106	5	"	100	<0.910	106	75-125		20	
Selenium	101	3	"	100	<0.620	101	75-125		20	
BLANK (600288-1-BLK)			Source: 600288-1-BLK		Prepared: 04/13/2011 Analyzed: 04/14/2011					
Copper	ND	2	mg/kg	100			-		20	
Chromium	ND	1	"	100			-		20	
Calcium	ND	20	"	2500			-		20	

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Metals by SW6010B - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 852109 - SW3050B

BLANK (600288-1-BLK)

Source: 600288-1-BLK

Prepared: 04/13/2011 Analyzed: 04/14/2011

Cadmium	ND	0.5	mg/kg	100			-		20	
Arsenic	ND	1	"	100			-		20	
Lead	ND	1	"	100			-		20	
Selenium	ND	3	"	100			-		20	
Zinc	ND	3	"	100			-		20	
Sodium	ND	50	"	2500			-		20	
Boron	ND	5	"	100			-		20	
Magnesium	ND	20	"	2500			-		20	
Potassium	ND	500	"	1000			-		20	
Nickel	ND	1	"	100			-		20	
Barium	ND	1	"	100			-		20	
Silver	ND	2	"	50			-		20	

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Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Metals by SW7196 - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 852663 - SW3060A										
MS (412868-006 S)		Source: 412868-006 S			Prepared: 04/19/2011 Analyzed: 04/19/2011					
Chromium, Hexavalent	3.63	1.18	mg/kg	5.9	<0.356	62	80-120		20	
LCS (852663-1-BKS)		Source: 852663-1-BKS			Prepared: 04/19/2011 Analyzed: 04/19/2011					
Chromium, Hexavalent	2.48	0.5	mg/kg	2.5	<0.151	99	80-120		20	
BLANK (852663-1-BLK)		Source: 852663-1-BLK			Prepared: 04/19/2011 Analyzed: 04/19/2011					
Chromium, Hexavalent	ND	0.5	mg/kg	2.5			-		20	

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Metals by SW7471A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 852163 - SW7471P										
MS (413039-001 S)		Source: 413039-001 S			Prepared: 04/15/2011 Analyzed: 04/15/2011					
Mercury	0.202	0.0344	mg/kg	0.138	0.0538	107	75-125		20	
MSD (413039-001 SD)		Source: 413039-001 SD			Prepared: 04/15/2011 Analyzed: 04/15/2011					
Mercury	0.195	0.0344	mg/kg	0.138	0.0538	102	75-125	4	20	
LCS (600502-1-BKS)		Source: 600502-1-BKS			Prepared: 04/15/2011 Analyzed: 04/15/2011					
Mercury	0.143	0.0333	mg/kg	0.133	<0.0106	108	75-125		20	
BLANK (600502-1-BLK)		Source: 600502-1-BLK			Prepared: 04/15/2011 Analyzed: 04/15/2011					
Mercury	ND	0.0333	mg/kg	0.133			-		20	

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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Percent Moisture by AD2216A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 851712 - NONE

BLANK (851712-1-BLK)

Source: 851712-1-BLK

Prepared: 04/12/2011 Analyzed: 04/12/2011

Percent Moisture	ND	1	%	0			-		20	
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Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Polyaromatic Hydrocarbons (PaHs) by SW8270C - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 852299 - SW3550

MS (413007-001 S)			Source: 413007-001 S			Prepared: 04/14/2011 Analyzed: 04/14/2011				
Benzo(a)anthracene	2.05	0.107	mg/kg	1.79	0.168	105	47-115		20	
Naphthalene	1.74	0.107	"	1.79	<0.0226	97	45-104		20	
1-Methylnaphthalene	1.45	0.107	"	1.79	<0.0290	81	47-93		20	
Acenaphthylene	1.88	0.107	"	1.79	<0.0322	105	45-112		20	
Pyrene	2.02	0.107	"	1.79	0.392	91	49-104		20	
Indeno(1,2,3-c,d)Pyrene	1.79	0.107	"	1.79	0.165	91	50-109		30	
Fluorene	1.8	0.107	"	1.79	<0.0247	101	48-108		20	
Fluoranthene	2.25	0.107	"	1.79	0.447	101	47-116		20	
Dibenz(a,h)anthracene	1.71	0.0709	"	1.79	0.0598	92	48-113		20	
2-Methylnaphthalene	1.63	0.215	"	1.79	<0.0301	91	47-99		20	
Phenanthrene	1.91	0.107	"	1.79	0.112	100	47-113		20	
Chrysene	2.07	0.107	"	1.79	0.253	102	51-123		20	
Acenaphthene	1.74	0.107	"	1.79	<0.0236	97	46-108		20	
Anthracene	1.83	0.107	"	1.79	<0.0376	102	46-108		20	
Benzo(a)pyrene	1.87	0.0709	"	1.79	0.186	94	44-115		20	
Benzo(b)fluoranthene	2.08	0.107	"	1.79	0.271	101	49-109		20	
Benzo(g,h,i)perylene	1.77	0.107	"	1.79	0.187	88	49-110		20	
Benzo(k)fluoranthene	1.83	0.107	"	1.79	0.178	92	18-142		20	
Surrogate: Terphenyl-D14	1.26		percent	1.67		75	57-122			
Surrogate: Nitrobenzene-d5	1		"	1.67		60	63-105			
Surrogate: 2-Fluorobiphenyl	1.27		"	1.67		76	64-104			

MSD (413007-001 SD)			Source: 413007-001 SD			Prepared: 04/14/2011 Analyzed: 04/14/2011				
Dibenz(a,h)anthracene	1.75	0.0709	mg/kg	1.79	0.0598	94	48-113	2	20	
Anthracene	1.78	0.107	"	1.79	<0.0376	99	46-108	3	20	
Pyrene	2.23	0.107	"	1.79	0.392	103	49-104	10	20	
Phenanthrene	1.98	0.107	"	1.79	0.112	104	47-113	4	20	

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Polyaromatic Hydrocarbons (PaHs) by SW8270C - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 852299 - SW3550

MSD (413007-001 SD)				Source: 413007-001 SD		Prepared: 04/14/2011 Analyzed: 04/14/2011				
Naphthalene	1.79	0.107	mg/kg	1.79	<0.0226	100	45-104	3	20	
Indeno(1,2,3-c,d)Pyrene	1.83	0.107	"	1.79	0.165	93	50-109	2	30	
Fluorene	1.78	0.107	"	1.79	<0.0247	99	48-108	1	20	
Fluoranthene	2.43	0.107	"	1.79	0.447	111	47-116	8	20	
2-Methylnaphthalene	1.65	0.215	"	1.79	<0.0301	92	47-99	1	20	
1-Methylnaphthalene	1.43	0.107	"	1.79	<0.0290	80	47-93	1	20	
Benzo(a)pyrene	1.85	0.0709	"	1.79	0.186	93	44-115	1	20	
Chrysene	2.19	0.107	"	1.79	0.253	108	51-123	6	20	
Acenaphthene	1.75	0.107	"	1.79	<0.0236	98	46-108	1	20	
Acenaphthylene	1.85	0.107	"	1.79	<0.0322	103	45-112	2	20	
Benzo(a)anthracene	2.1	0.107	"	1.79	0.168	108	47-115	2	20	
Benzo(b)fluoranthene	2.36	0.107	"	1.79	0.271	117	49-109	13	20	
Benzo(g,h,i)perylene	1.81	0.107	"	1.79	0.187	91	49-110	2	20	
Benzo(k)fluoranthene	1.57	0.107	"	1.79	0.178	78	18-142	15	20	
Surrogate: Nitrobenzene-d5	1.08		percent	1.67		65	63-105			
Surrogate: Terphenyl-D14	1.35		"	1.67		81	57-122			
Surrogate: 2-Fluorobiphenyl	1.29		"	1.67		77	64-104			

LCS (600190-1-BKS)				Source: 600190-1-BKS		Prepared: 04/14/2011 Analyzed: 04/14/2011				
1-Methylnaphthalene	1.33	0.1	mg/kg	1.67	<0.0270	80	47-93		20	
Dibenz(a,h)anthracene	1.54	0.066	"	1.67	<0.0270	92	48-113		20	
Pyrene	1.7	0.1	"	1.67	<0.0330	102	49-104		20	
Phenanthrene	1.7	0.1	"	1.67	<0.0320	102	47-113		20	
Naphthalene	1.67	0.1	"	1.67	<0.0210	100	45-104		20	
Indeno(1,2,3-c,d)Pyrene	1.55	0.1	"	1.67	<0.0340	93	50-109		30	
Fluorene	1.63	0.1	"	1.67	<0.0230	98	48-108		20	
Fluoranthene	1.84	0.1	"	1.67	<0.0380	110	47-116		20	

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Olsson Associates
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Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Polyaromatic Hydrocarbons (PaHs) by SW8270C - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 852299 - SW3550

LCS (600190-1-BKS)		Source: 600190-1-BKS			Prepared: 04/14/2011 Analyzed: 04/14/2011					
Benzo(k)fluoranthene	1.41	0.1	mg/kg	1.67	<0.0330	84	18-142		20	
Benzo(g,h,i)perylene	1.52	0.1	"	1.67	<0.0270	91	49-110		20	
Benzo(b)fluoranthene	1.9	0.1	"	1.67	<0.0200	114	49-109		20	
Benzo(a)pyrene	1.62	0.066	"	1.67	<0.0250	97	44-115		20	
Benzo(a)anthracene	1.77	0.1	"	1.67	<0.0280	106	47-115		20	
Anthracene	1.68	0.1	"	1.67	<0.0350	101	46-108		20	
Acenaphthylene	1.66	0.1	"	1.67	<0.0300	99	45-112		20	
Acenaphthene	1.57	0.1	"	1.67	<0.0220	94	46-108		20	
2-Methylnaphthalene	1.51	0.2	"	1.67	<0.0280	90	47-99		20	
Chrysene	1.83	0.1	"	1.67	<0.0230	110	51-123		20	
Surrogate: Nitrobenzene-d5	1.01		percent	1.67		60	63-105			
Surrogate: Terphenyl-D14	1.31		"	1.67		78	57-122			
Surrogate: 2-Fluorobiphenyl	1.22		"	1.67		73	64-104			

BLANK (600190-1-BLK)		Source: 600190-1-BLK			Prepared: 04/14/2011 Analyzed: 04/14/2011					
Fluoranthene	ND	0.1	mg/kg	1.67			-		20	
Fluorene	ND	0.1	"	1.67			-		20	
Indeno(1,2,3-c,d)Pyrene	ND	0.1	"	1.67			-		30	
Naphthalene	ND	0.1	"	1.67			-		20	
Phenanthrene	ND	0.1	"	1.67			-		20	
Dibenz(a,h)anthracene	ND	0.066	"	1.67			-		20	
Anthracene	ND	0.1	"	1.67			-		20	
Pyrene	ND	0.1	"	1.67			-		20	
Chrysene	ND	0.1	"	1.67			-		20	
Benzo(k)fluoranthene	ND	0.1	"	1.67			-		20	
Benzo(g,h,i)perylene	ND	0.1	"	1.67			-		20	
Benzo(b)fluoranthene	ND	0.1	"	1.67			-		20	

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Polyaromatic Hydrocarbons (PAHs) by SW8270C - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 852299 - SW3550										
BLANK (600190-1-BLK)		Source: 600190-1-BLK			Prepared: 04/14/2011 Analyzed: 04/14/2011					
Benzo(a)anthracene	ND	0.1	mg/kg	1.67			-		20	
Acenaphthylene	ND	0.1	"	1.67			-		20	
Acenaphthene	ND	0.1	"	1.67			-		20	
2-Methylnaphthalene	ND	0.2	"	1.67			-		20	
1-Methylnaphthalene	ND	0.1	"	1.67			-		20	
Benzo(a)pyrene	ND	0.066	"	1.67			-		20	
Surrogate: Nitrobenzene-d5	1.08		percent	1.67		65	63-105			
Surrogate: Terphenyl-D14	1.41		"	1.67		84	57-122			
Surrogate: 2-Fluorobiphenyl	1.32		"	1.67		79	64-104			

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Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Project Number: 011-0726-100-100001

Project: Jensen Pad J-1-3-0

Notes and Definitions

- U Indicates that the compound was analyzed for but not detected.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Spike recovery in the LCS is outside method recovery limits. Positive hits may be slightly biased. NELAC criteria allows up to 5 spiked compounds to recover outside method control limits with full list 8270 spike.
- I Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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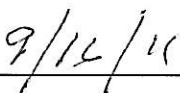
PERMISSION TO LANDFARM
DRILLING CUTTINGS

JENSEN 1-3 WELL PAD

As Landowner(s) of the property, I/we hereby allow Fram Operating, LLC to use the well cuttings stored on this location to be included in the reclamation, restoration and seeding process.



Victor T. Jensen, Landowner



Date

Date